	Application No.	Applicant(s)
Notice of Allowability	10/803,037	WOO, JONG HYUN
	Examiner	Art Unit
	MY-CHAU T. TRAN	2629
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet with S (OR REMAINS) CLOSED in the b) or other appropriate communication. This application is sub-	the correspondence address is application. If not included cation will be mailed in due course. THIS
 This communication is responsive to <u>05/21/2007</u>. ☐ 1-19, 21-31 and 33 The allowed claim(s) is/are 		
 3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	ve been received. ve been received in Application I	No
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a MENT of this application.	reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.	
(a) I including changes required by the Notice of Draftsper		PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		,
(b) including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the DGICAL MATERIAL.
Attachment(s)	E Malian of lufa.	mal Datant Application
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		mal Patent Application
2. Thouse of Drauperson's Fateric Drawing Neview (F10-940)		iil Date <u>20070619</u> .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's An	nendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta	atement of Reasons for Allowand
		RICHARIÚ HJERPE SUPERVISORY PATENT EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

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EXAMINER'S AMENDMENT

Application and Claims Status

1. Applicant's amendment and response filed 05/21/2007 are acknowledged and entered.

2. Claims 1-31 were pending. Applicants have amended claims 1, 2, 5, 6, 12, 16, 17, 19-22,

26, and 28-31; and added claims 32 and 33. No claims were cancelled. Therefore, claims 1-33

are currently pending and are under consideration in this Office Action.

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

David C. Oren on 06/14/2007.

The application has been amended as follows:

A) Please cancel Claims 20 and 32.

B) Claim 19 is rewritten as follows:

-- "A method for controlling an inverter pulse width modulation (PWM)

frequency of a liquid crystal display (LCD), comprising:

identifying a frame frequency of the LCD by selecting one of a plurality of

frame frequencies based on a system environment wherein the a system

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environment comprises electronic interference or noise, and outputting

PWM information based on the identified frame frequency; and

generating a PWM signal, based on the PWM information and brightness

control information for an LCD lamp."--

- B) Claim 30 is rewritten as follows:
 - --" An apparatus configured to control an inverter pulse width modulation (PWM) frequency of a liquid crystal display (LCD), comprising:

 a controller configured to select one of a plurality of different frame frequencies of the LCD based on a system environment wherein the a system environment comprises electronic interference or noise and to output PWM information based on the selected frame frequency for an LCD lamp; and
 - a PWM converter configured to generate a PWM signal based on the PWM information."--
- B) Claim 33 is rewritten as follows:
 - --" A method for controlling an inverter pulse width modulation (PWM)

 frequency of a liquid crystal display (LCD), comprising:

 identifying a frame frequency of the LCD by selecting one of a plurality of frame frequencies based on a system environment wherein the a system environment comprises electronic interference or noise, and outputting PWM information based on the identified frame frequency; and

generating a PWM signal, based on the PWM information and brightness control information for an LCD lamp, wherein generating the PWM signal comprises:

leveling up the PWM information by a predetermined level;
outputting a first signal having a frequency corresponding to the leveled
PWM information; and

comparing the first signal with the brightness control information to output the PWM signal."--

4. The following is an examiner's statement of reasons for allowance:

The instant claims are allowed for the reason that the cited prior arts does not teach or fairly suggest the presently claimed device and method as follows:

- a) For claims 1-18, the limitation of "control means for changing an LCD frame frequency of the LCD based on a system environment, and outputting information based on the changed LCD frame frequency for an LCD inverter, wherein the system environment comprises electronic interference or noise" of claim 1 is not taught or suggested by the cited prior art.
- b) For claims 19 and 21-29, the method step limitation of "identifying a frame frequency of the LCD by selecting one of a plurality of frame frequencies based on a system environment wherein the a system environment comprises electronic interference or noise, and outputting PWM information based on the identified frame frequency" of claim 19 is not taught or suggested by the cited prior art.

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- b) For claims 30-31, the limitation of "a controller configured to select one of a plurality of different frame frequencies of the LCD based on a system environment wherein the a system environment comprises electronic interference or noise and to output PWM information based on the selected frame frequency for an LCD lamp" of claim 30 is not taught or suggested by the cited prior art.
- b) For claim 33, the method step limitation of "identifying a frame frequency of the LCD by selecting one of a plurality of frame frequencies based on a system environment wherein the a system environment comprises electronic interference or noise, and outputting PWM information based on the identified frame frequency" of claim 33 is not taught or suggested by the cited prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MY-CHAU T. TRAN whose telephone number is 571-272-0810. The examiner can normally be reached on Monday: 8:00-2:30; Tuesday-Thursday: 7:30-5:00; Friday: 8:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MCT/ June 19, 2007

> RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600